

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR, where

- --f(GHz) is the RF channel transmit frequency in GHz
- --Power and distance are rounded to the nearest mW and mm before calculation
- --The result is rounded to one decimal place for comparison

EIRP = pt x gt =  $(EXd)^2/30$ 

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unit less),

E = electric field strength in V/m,  $--10^{((dBuV/m)/20)}/10^6$ 

d = measurement distance in meters (m) ---3m

So pt =  $(Exd)^2/30 \times gt$ 

Field strength = 85.06 dBuV/m @3m Ant gain =0dBi, so Ant numeric gain= 1.00

So pt={  $[10^{(85.06/20)}/10^6 \times 3]^2/30 \times 1.00$  } x 1000 mW = 0.096mW

So (0.096mW /5mm) x  $\sqrt{2.474}$  = 0.030<3

Then SAR evaluation is not required